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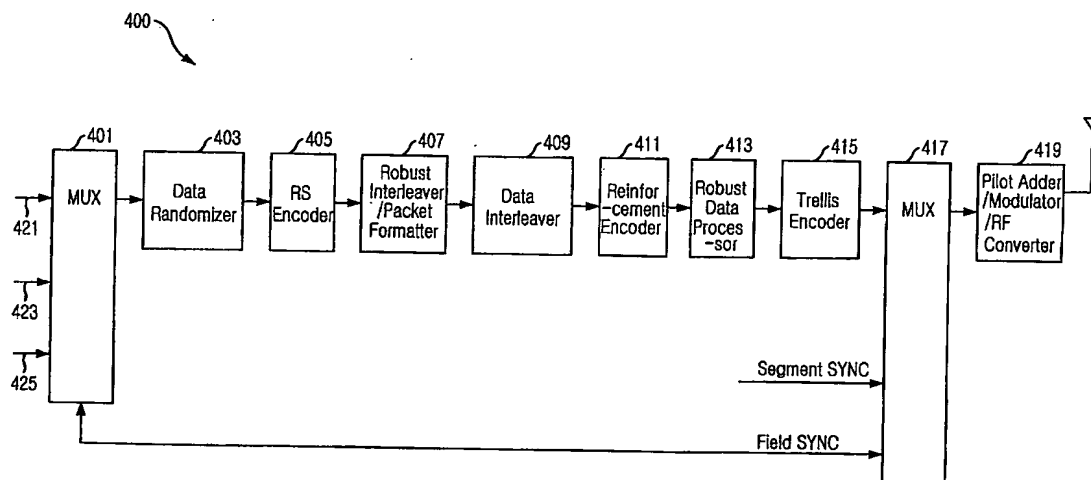
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(54) Title: DIGITAL TELEVISION TRANSMITTER AND RECEIVER FOR TRANSMITTING AND RECEIVING DUAL STREAM USING 4 LEVEL VESTIGIAL SIDE BAND ROBUST DATA



(57) Abstract: The present invention relates to a Vestigial Side Band (VSB) Digital Television (DTV) in agreement with the DTV standards (A/53) of the Advanced Television System Committee (ATSC), and to a method thereof. More particularly, it provides 4-VSB DTV transceiver that improves reception performance of a receiver by transmitting and receiving dual streams formed of normal data and robust data without increasing average power, regardless of a mixing rate of the normal and robust data. The 4-VSB DTV transceiver of the present research includes an encoding unit for encoding the robust data to be mapped to one of two groups having 4 levels {-5, -3, 1, 7} and {-7, -1, 3, 5}.

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